International application No.

	101/	062004/012/39
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ C22C1/04		
According to International Patent Classification (IPC) or to both n	ational classification and IPC	
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed Int.Cl ⁷ C22C1/04, B22F1/00-8/00	by classification symbols)	
Documentation searched other than minimum documentation to the Jitsuyo Shinan Koho 1922–1996 Kokai Jitsuyo Shinan Koho 1971–2004	Toroku Jitsuyo Shinan Koho Jitsuyo Shinan Toroku Koho	1994-2004 1996-2004
Electronic data base consulted during the international search (name	e of data base and, where practicable, seard	ch terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, whe	re appropriate, of the relevant passages	Relevant to claim No.
Y JP 47-031310 A (Akebono Bi Ltd.), 11 November, 1972 (11.11.7) Claims; Fig. 1 (Family: none)	rake Industry Co.,	1-12,35,36, 42,46,47
Ltd.),	20 October, 1998 (20.10.98), Claims	
Y JP 05-331504 A (Toyota Mot 14 December, 1993 (14.12.93 Claims; Par. No. [0016] (Family: none)	or Corp.),	1-12,35,36, 42,46,47
Further documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international "T" later document published after the international filing date and not in conflict with the application but cited to the principle or fleory underlying the invention document of particular relevance: the claimed invention document of particular relevance: the claimed invention		lication but cited to understand e invention
filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
document published prior to the international filing date but later than the priority date claimed	being obvious to a person skilled in "&" document member of the same pater	the art at family
ate of the actual completion of the international search 22 November, 2004 (22.11.04)	Date of mailing of the international search report 07 December, 2004 (07.12.04)	
ame and mailing address of the ISA/ Japanese Patent Office	Authorized officer	
m PCT/ISA/210 (second sheet) (January 2004)	Telephone No.	·

International application No.

PCT/JP2004/012739

Category*	Citation of document, with indica			Relevant to claim N
Y	JP 2002-003962 A (Ai 09 January, 2002 (09. Claims (Family: none)	san Industry Co., 01.02),	Ltd.),	1-12,35,36, 42,46,47
·				

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Box No. II Obse	rvations where certain claims were found unscarchable (Continuation of item 2 of first sheet)
1. Claims Nos.:	report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they re extent that no	elate to parts of the international application that do not comply with the prescribed requirements to such an meaningful international search can be carried out, specifically:
3. Claims Nos.: because they a	re dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Obser	vations where unity of invention is lacking (Continuation of item 3 of first sheet)
Claims 1, 6 referring to directly or in by directly or the claims de	thing Authority found multiple inventions in this international application, as follows: , 35, 42, 46 and the claims defined by directly or indirectly claim 1, 6, 35, 42 or 46, claim 13 and the claims defined by indirectly referring to claim 13, claim 17 and the claims defined indirectly referring to claim 17, claim 21 and the claims defined indirectly referring to claim 21, claim 22 and the claims defined indirectly referring to claim 22, claim 23 and the claims defined indirectly referring to claim 23, claim 29 and the claims defined indirectly referring to claim 29, claims 30, 41 and 44 and affined by directly or indirectly referring to claim 30, 41 or (continued to extra sheet)
claims.	additional search fees were timely paid by the applicant, this international search report covers all searchable
2. As all searchable any additional fe	claims could be searched without effort justifying an additional fee, this Authority did not invite payment of e.
As only some of only those claim	the required additional search fees were timely paid by the applicant, this international search report covers as for which fees were paid, specifically claims Nos.:
	itional search fees were timely paid by the applicant. Consequently, this international search report is invention first mentioned in the claims; it is covered by claims Nos.:
Claims 1 to	12, 35, 36, 42, 46 and 47
Remark on Protest	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

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Continuation of Box No.III of continuation of first sheet(2)

44, and claims 37, 43 and 48 and the claims defined by directly or indirectly referring to claim 37, 43 or 48 do not comply with the requirement of unity of invention with one another.

Claims 30, 31, 41, 44, 45, 55 and 56 do not comply with the requirement of unity of invention with one another.

Form PCT/ISA/210 (extra sheet) (January 2004)